ELECTRONIC SAFE

Ram7-IV

USER MANUAL

Viro®

SUMMARY

USE 35

How to insert/ replace batteries 36
Door opening 37
Door closing 39
1st code setting 40
Emergency opening 41
Emergency opening with mechanical key 42
Emergency opening with external power supply 42
Security block 43

SAFE MENU 44

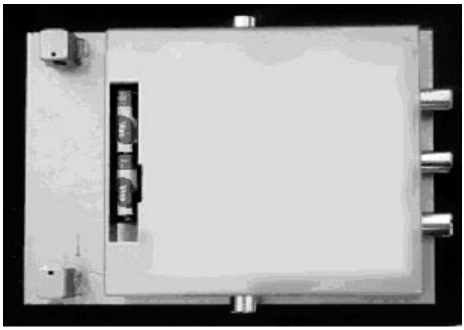
Menu 1.2: Change code 2 47
Menu 1.3: Change code 3 47
Menu 1.4: Change code 4 47
Menu 2.1: Internal climate info 49
Menu 2.2: Battery level 50
Menu 2.3: Operations history 51
Menu 3.1: Set reminder 52
Menu 3.2: Delete reminder 53
Menu 3.3: View reminder 53
Menu 4.1: View date/time 54
Menu 4.2: Clock setting 55
Menu 5.1: Select language **56**
Menu 5.2: Adjust brightness 57
Menu 5.3: Adjust contrast 58
Menu 5.4: Illuminated keypad (optional) 59
Menu 5.5: Adjust temperature 60
Menu 5.6: Internal light (optional) 61
Menu 6.1: Display 62
Menu 6.2: Audio 63
Menu 6.3: Alarms 64
Menu 6.4: Error block 65
Menu 6.5: Hide code 66
Menu 6.6: Standard settings 67
Optional 68

Use

How to insert/ replace batteries

With door opened, remove the plastic cover that closes the battery case.

Take out the battery case and insert 4 new alkaline batteries 1,5V AA LR6, paying attention to the polarity printed on the battery case.



NOTE: *use only new batteries and do not mix new and old batteries.*

Close the battery case with pressure, then, with door opened, press any key from 1 to 9. Check if the following message appears on the display:

If the above message appears the safe is ready for use.

If the above message does not appear, the batteries are inserted incorrectly, therefore check polarity again.

NOTE: *Thanks to special protections, erroneously inserted batteries do not cause permanent damages to the electronic card.*

Door opening

To open the safe door is necessary to know one of the four opening codes.

TO OPEN: enter your personal code and press ENTER. If no code has been set yet, the initial code is "000000".

Each time a key is pressed the relevant number will be displayed in order to check if the entered code is correct. It is possible to hide the code with asterisks (as for the cash point machine) using menu function 6.5 on p.66.

Once the correct code is entered the opening procedure starts and the following message is displayed:

Turn the knob clockwise then open the door.

NOTE: If the knob is not turned within few seconds, for safety reasons, the mechanism will lock again leaving the safe closed. To open it is necessary to enter the code one more time.

Once the safe is opened the following information may be displayed:

Reminder, if set. For ex.:

Then:

This informs regarding the number of attempts to open the safe with wrong code done since safe's last closing. In case no erroneous attempts have been made the above message does not appear. Then:

This tells us when the safe was last opened in order to inform if somebody opened the safe in our absence. In the operations history (menu function 2.3, p. 51) , it is possible to check which one of the four opening codes unlocked the safe.

If the batteries are low, the following message is displayed:

Door closing

To lock the safe simply close the door and turn the knob counter-clockwise.

NOTE: *In case the safe is new check if there are batteries inserted!*

The following will be displayed:

NOTE: If the batteries are fully exhausted, after the message "Door closed" the message "Low batteries" will appear.

1st code setting
(to do with door opened)

There are four memory spaces for four different codes from 6 to 10 digits each.

These codes are personal and may belong to four different people. When the safe is opened with one of the codes the operation is registered in the operations history.

In case of doubts regarding the safe contents the operations history may be checked (menu function 2.3 on p. 51) where one can see which code opened the safe.
The following may be displayed:

This is a way to know exact date and time when safe was opened by the person identified by code no.1

The history keeps the last 50 operations.

To enter a new code or change an already existing one it is necessary to follow the instructions menu 1.1…1.4 on p. 47.

Emergency opening

In case the batteries are fully exhausted the safe should be opened by emergency. Viro has created two versions of safe in order to satisfy the different customers needs:

- Emergency opening with mechanical key, to be copied only at Viro after showing the owner's card (supplied with the safe). Key hub protected by anti drilling plate.

- Emergency opening with external power supply for a 9 V battery.

First of all it is necessary to identify what kind of emergency opening is prearranged on the safe. Simply have a look at the keypad, close to the knob: if there is a plastic top under the knob we have a mechanical emergency opening version: if there are two connectors on the left of the knob we have an external power supply version.

Mechanical key

External power supply

Emergency opening with mechanical key

Remove the plastic top and insert the key. Turn the key clockwise and hold it while turning the knob in the same direction till it stops (45° circa). Unhold the key without releasing the knob: the key will return to its initial position, release then the knob that will unblock the locking mechanism.

The message "**Emergency key**" will be displayed and the operation will be registered in the history.

Do not leave the emergency key inside the safe! Keep it secured in a different place if possible not even in the same room where the safe is installed, in order to avoid that ill intentioned people may find it.

Emergency opening with external power supply

Take a 9 V battery and place it over the connectors on the left of the knob using the left hand and paying attention to the polarity.
Keep the battery pressed to the connectors, the safe will switch on and within few seconds the display will be ready for inserting the code. Without removing the battery enter the opening code with the right hand and press **ENTER**, then turn the knob to 90° clockwise. The safe will unlock and it is possible to replace the batteries.

Security block

After six consecutive attempts to open the safe with wrong code the locking mechanism will block for a period previously set by the user (see menu function 6.4 on p. 65).

During this period the safe is out of use and no operations can be done.

The following message is displayed: "**Security block**", "**-xx minutes**"

Safe Menu

To enter the menu press **MENU** on the keypad under the display.

Use ◄ and ► to move forward and back through the menu options.
The menu is organized on two levels: first level contains 6 options that include groups of functions according to the purpose of use. The options are:

1. change combination
2. internal status information
3. reminder
4. time setting
5. main settings
6. operation modes

Press **OK** to confirm the menu option and option contents will be displayed where each group of functions is defined by an "option number" ."function number".
For ex. press OK on menu 1 to access submenu: 1.1, 1.2, 1.3 and 1.4.
Press **BACK** to return to main menu 1, 2, 3,4, 5 or 6.

Main menu

The main menu contains 6 function groups :

The contents of each function group are as follows:

1 Change combination
- 1.1 Change combination 1 *
- 1.2 Change combination 2 *
- 1.3 Change combination 3 *
- 1.4 Change combination 4 *

2 Internal status information
- 2.1 Temperature and humidity
- 2.2 Battery level
- 2.3 Operations history *

3 Reminder
- 3.1 Reminder setting *
- 3.2 Delete reminder *
- 3.3 View reminder

4 Time setting
- 4.1 View date/time
- 4.2 Clock setting *

5 Main settings
- 5.1 Select language
- 5.2 Adjust brightness
- 5.3 Adjust contrast
- 5.4 Keypad light
- 5.5 Adjust temperature
- 5.6 Internal light

6 Operation Modes
- 6.1 Display
- 6.2 Audio
- 6.3 Alarms
- 6.4 Error block *
- 6.5 Hide code
- 6.6 Standard settings *

* *functions registered in the history of the last 50 operations.*

MENU 1: CHANGE CODE

(menu accessible only with door opened)

Menu 1.1: Change code 1
Menu 1.2: Change code 2
Menu 1.3: Change code 3
Menu 1.4: Change code 4

Using this function it is possible to memorize a personal code (from 6 to 10 digits) in one of the 4 memory spaces available.

Those four codes may be assigned to four different users without anybody knowing other people's code. When a user opens the safe with his personal code the operation is registered in the history.

In case of doubts regarding the safe contents the operations history may be checked (menu function 2.3 on p. 51) where one can see which code opened the safe and when.

NOTE: *The factory code set by default in position 1 is "000000". Change immediately this code for a personal one.*

In case the safe purchased has been displayed in a shop, please check whether the code set by default is still '000000' and whether there are no codes set in the positions 2,3 and 4. If it should not be so, kindly revert to the shop where the safe is purchased and ask for the codes used in order to delete them or change them all with one or more personal codes.

Press **OK** and the procedure of code change/setting will start:

If in that position there is a previously set code, please insert the code and press **ENTER**:

Then a request for new code entry is displayed. Insert a new code (from 6 to 10 digits) and press **ENTER**

NOTE: As shown further on the code "0000000000" is not useful.

Code confirmation is requested in order to check if the entered code is correct. Redial the new code and press **ENTER**

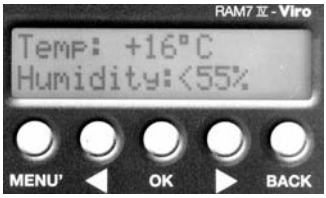
At this point the new code is set and the message "OPERATION DONE" is displayed.

DELETE CODE: if you want to cancel a code without setting a new one, but simply leaving the position empty, then you just enter the code "0000000000" as a new code. This code will not be memorized, it automatically cancels what previously set in that memory space. Obviously to do so it is necessary to know the code to cancel.

MENU 2: INTERNAL STATUS INFORMATION

Menu 2.1: Internal climate info

With this function is possible to view temperature and humidity inside the safe. Press **OK** and the following information is displayed:



It is possible to set the temperature sensor using menu function 5.5 (see p. 60) This information is given with precision of +/- 1°C while the humidity level is measured from 55% to 90% in scale of 5 percentage points.

NOTE: *The temperature and humidity values are updated every hour as well as after each data display.*

If the menu function 6.3 (Alarms, see p. 64) is active, when the relevant humidity level raises above 90% a 30 sec visual-sound alarm is activated and is repeated at the beginning of each hour until the level does not return below the alarm level.

The alarm's main function is to protect paper money or files from damage in case of condensation forming inside the safe.

Menu 2.2: Battery level

This function is used for displaying the internal batteries charge level.
The residual battery life is estimated and displayed in percentage. The calculations (starting from the 30th day after the batteries are inserted) are based on the period the safe has been used up to the moment of enquiry and change if the frequency of door openings/closings changes.

When the batteries are low and the correct functioning of the mechanism is not anymore granted, the following message appears:

In this conditions the safe goes in energy safe mode and the display back light switches off until the batteries are changed.

NOTE: The battery consumption is lower when the safe door is closed.

Menu 2.3: Operations history (only when door is opened)

With this function the history of the last 50 operations may be displayed. The first operation displayed is the last done. Press ◀ to view the previous operation (press ▶ to view the following). Press **OK** or **BACK** to exit the history menu and return to main menu.
For each operation date, time and type of operation is displayed.

Message displayed	Function
Closing	Door closing
Opening combination 1	Door opening with code 1
Opening combination 2	Door opening with code 2
Opening combination 3	Door opening with code 3
Opening combination 4	Door opening with code 4
Code error	Attempt to open the door with wrong code (the entered code is displayed).
Security block	Security block is activated after 6 consecutive attempts to open with wrong code
Menu X-X	Change setting menu x.x , where instead of x.x the numbers of the relevant menu are displayed
Emergency key	Emergency door opening with security mechanical key.

Examples of messages that may be displayed in the operations history menu:

MENU 3: REMINDER

Menu 3.1: Set reminder (only when door is opened)

With this functions is possible to write a **reminder that will be displayed each time the safe is opened.**
After pressing **OK** the message "print text" will appear for 2 sec. It is possible then to enter a reminder using the letters below each key of the keypad.

Enter the message as for the mobile phone, for ex. if you press **6** once letter "m" will be displayed, if you press it twice letter "n" will be displayed, and if you press three times "o" will be displayed.
Space bar is on key **1**.

If you press **CANC** last entered character is cancelled.

If you press **ENTER** you get a confirmation that the message entered is memorized.

Find here an example of a reminder:

Menu 3.2: Delete reminder (only when door is opened)

With this function it is possible to delete an already set reminder. Press **OK** and next time the safe is opened the message will not appear.

Menu 3.3: View reminder (only when door is opened)

With this function it is possible to display the reminder if any.

MENU 4: TIME SETTINGS

Menu 4.1: View date/time

With this function it is possible to view current date/time in order to check if the internal clock is correctly set.
Press **OK** and the following information will be displayed:

day/month/year
hours : minutes : seconds

Menu 4.2: Clock setting (only when door is opened)

With this function it is possible to set the internal clock of the safe.
Press **OK** for a start.
Insert the current time in the following format hours:minutes. Each data must be entered with two digits: if it is 7 o'clock and 7 min you must enter 07:07. The format for the hour is from 00 to 24, therefore if it is 5 o'clock p.m. you must enter 17:00.

Insert then the date in the following format: day/month/year. Also here you must use two characters each data. For the year only the last two relevant numbers are requested.

Once the date/time is set in a valid format the clock is displayed in order to check if the operation is successfully completed.

NOTE: *The legal time is automatically updated at 3 a.m. the last Sunday of Oct./March.*

MENU 5: MAIN SETTINGS

Menu 5.1: Select language

This function allows you to set the language for viewing messages on the display.
Press **OK**, and the language options will appear:

Press ◀ to select the option on the left, ENG (English),
Press ▶ to select the option on the right, ITA (Italian).
When an option is selected it is viewed in brackets.

At this point press **OK** to confirm your choice, then all the messages will appear in language selected, while pressing **BACK** the modifications made will be cancelled and the language currently in use will not be modified.

Menu 5.2: Adjust brightness

With this function it is possible to adjust the brightness of the blue colour of the display in order to adapt it to the light of the environment where the safe is installed.
Press **OK**, to visualize the regulation bar as follows:

Press ◀ to reduce brightness by one point,
Press ▶ to raise brightness by one point.
The option selected is viewed in the center of the display in brackets.

At this point press **OK** to confirm the selection displayed and the new brightness level is memorized for future use, while pressing **BACK** the modifications made will be cancelled and the brightness currently in use will not be modified

Menu 5.3: Adjust contrast

With this function it is possible to adjust the
contrast of the writings displayed, in order to adapt it to the light of the environment where the safe is installed. Setting a high contrast level the writings will appear lighter while setting a low contrast level the writing will appear darker.
Press **OK**, to visualize the regulation bar as follows:

Press ◄ to reduce contrast by one point (darker writings),
Press ► to raise contrast by one point (lighter writings).
The option selected is viewed in the center of the display in brackets.

At this point press **OK** to confirm the selection displayed and the new contrast level is memorized for future use , while pressing **BACK** the modifications made will be cancelled and the contrast currently in use will not be modified

Menu 5.4: Illuminated keypad (optional) (only when door is opened)

With this function it is possible to activate or inactivate the keypad back light (optional).
Press **OK**, and the following options will appear:

Press ◀ to go to the left option, in this case YES (light active),
Press ▶ to go to the right option, in this case NO (light inactive).
When an option is selected it is viewed in brackets.

At this point press **OK** to confirm the selection displayed, while pressing **BACK** the modifications made will be cancelled and settings previously in use will not be modified

NOTE: *The keypad back light, when activated, will produce higher consumption of the batteries*

Menu 5.5: Adjust temperature (only when door is opened)

With this function it is possible to set with precision the sensor for internal temperature. First of all check the exact temperature level inside the safe (for ex. leave a thermometer locked in the safe for more than an hour)

Press **OK**, and the internal temperature will be displayed. The real temperature value is requested (control what the thermometer shows):

Enter the real temperature value in two digits.
That means that if there are 7 degrees you must enter 07.
On the display appears the message "Operation done". It is possible to control if the new temperature value is correct through menu 2.1 (Internal Status Info, on p. 49).

Menu 5.6: Internal light (optional)
(only when door is opened)

It is possible to install an optional internal light also after the safe purchase. At each door opening the light will switch on for a period previously set by the user (max 60 sec).

With this function it is possible to set the duration of the internal light (or deactivate it). If no internal light is installed, this menu option does not affect the safe functioning.

To change the light duration, press **OK** and the present value will be displayed in brackets, insert the desired value (in seconds) using two digits.

If you enter 00 the internal light is not active, values higher than 60 are non accepted.

NOTE: *The internal light has its own batteries. When the batteries are low the internal light will become less intense, but this will not affect the correct safe functioning.*

MENU 6: OPERATION MODES

Menu 6.1: Display (only when door is opened)

With this function it is possible to set the "ECONOMY" mode which allows to reduce the brightness of the display for a longer battery life.

Press **OK**, and the display modes will appear:

Press ◄ to go to the left option, in this case "ECONOMY",
Press ► to go to the right option, in this case "NORMAL".
The option currently selected is viewed in brackets.

At this point press **OK** to confirm the selection displayed, while pressing **BACK** the modifications made will be cancelled and settings previously in use will not be modified

NOTE: *When modifying the brightness of the display (menu 5.2, on p. 57) the "ECONOMY" mode is automatically deactivated.*

Menu 6.2: Audio
(only when door is opened)

With this function it is possible to disable the sound confirmation of the pressed keys and all the other keypad sounds.
This option is useful when the safe is installed in the bedroom and avoids disturbing the people who relax.

Press **OK**, and the following options are displayed:

Press ◀ to go to the left option, in this case "NORMAL",
press ▶ to go to the right option, in this case "SILENT".
The option currently selected is viewed in brackets.

At this point press **OK** to confirm the selection displayed, while pressing **BACK** the modifications made will be cancelled and settings previously in use will not be modified

NOTE: *If setting the "SILENT" mode also the sound of the alarm for high humidity, if active, will be changed from audio-visual into visual only (blinking display light)*

Menu 6.3: Alarms
(only when door is opened)

With this function it is possible to activate the alarm for high humidity. This setting is useful when inside the safe there are objects that may be damaged by the humidity, such as documents, watches etc.

ALARM DESCRIPTION: When the relevant humidity level raises over 90% an audio-visual alarm turns on, lasts 30 sec and is repeated at the beginning of each hour until the humidity goes under the dangerous level. Press any key to stop the alarm.

To activate/deactivate the function press **OK**, and the following options will appear:

Press ◀ to go to the left option, in this case "YES" (humidity alarm on),
Press ▶ to go to the right option, in this case "NO" (humidity alarm off).
At this point press **OK** to confirm the selection displayed, while pressing **BACK** the modifications made will be cancelled and settings previously in use will not be modified.

NOTE: *The humidity alarm is useful only when the safe is installed in a place where the alarm may be easily heard, otherwise the alarm may ring without being heard and there is a risk that the batteries are exhausted. Use this function only when necessary.*
When going away for a long period of time (for ex. on holidays) it is advisable to deactivate this function.

Menu 6.4: Error block (only when door is opened)

With this function it is possible to deactivate or set the duration of the security block after 6 consecutive attempts to open the safe with wrong code.
This is to avoid that ill-intentioned people may try many different codes in order to open the safe (birth dates, wedding date, etc.).

SECURITY BLOCK DESCRIPTION: After the 6th consecutive errors the safe will block for a period of time previously set blocking all the safe functions. The security block may last form 0 (block inactive) to 60 minutes.

To modify the block duration press **OK**, and the value currently set is displayed in brackets while a new value of two digits may be set in the empty spaces:

If you enter 00 the security block is inactive, while value higher than 60 is not valid.

NOTE: *After each safe opening the number of eventual erroneous attempts since last safe opening is displayed even thought the function of security block is inactive.*

Menu 6.5: Hide code
(only when door is opened)

With this function while entering the opening code it will not be displayed and will be replaced by asterisks. This is a way to protect the user's privacy in case the safe is installed in a place where everybody may see it (as for the cash point machines).
Press **OK**, and the following options are displayed:

Press ◀ to go to the left option, in this case "YES" (asterisks),
Press ▶ to go to the right option, in this case "NO" (numbers).
The option currently selected is viewed in brackets.

At this point press **OK** to confirm the selection displayed, while pressing **BACK** the modifications made will be cancelled and settings previously in use will not be modified.

Menu 6.6: Standard settings (only when door is opened)

With this function it is possible to reset all the options from menu 5 and 6 to the standard settings.
Press **OK** and a confirmation is requested as follows:

Select "Yes" (and press OK) if you desire to reset the options of menu 5 and 6 to their standard settings, select "NO" (and press OK) in order to leave them unchanged.

Optional

Internal light

It is possible to purchase an optional internal light for the safe even after the safe is installed. Thanks to this option it is easier to find small objects stored in the safe, even if the safe is installed in dark or hidden places.
Functioning: at each door opening the light will switch on for a period previously set by the user (max 60 sec).

Prearrangement for connecting to the home antitheft system

It is possible order Ram7-IV with prearrangement for connecting to the home antitheft system. A vibration sensor will activate your home alarm (if on) in case somebody is trying to pull the safe out of its housing (wall/piece of furniture).
Installation: inside the safe back cover there are two connectors: one "normal close" and one "normal open", to match all kinds of alarms. The connection should be made by a technician who you trust and who knows your alarm system type, and it is necessary to use two wires to connect the alarm switchboard to the safe.
Functioning: when the antitheft system is active, each safe opening and each strong bump will make the alarm ring.

Illuminated keypad

It is possible to order a special version of Ram7-IV with illuminated keypad that make easier the use of the keypad even in not well illuminated or dark areas. After the purchase it is not possible to transform a standard keypad safe into a safe with illuminated keypad.